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FORM PTO-1449 DEPARTMENT OF COMMERCE (Modified) PATENT AND TRADEMARK OFFICE

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SERIAL NO. 10/658,032

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

APPLICANT:

Robert B. MALE et al.

FILING DATE

GROUP

(Use several sheets if necessary)

September 9, 2003 3752

|     | EXAMINER INITIAL | PATENT<br>NUMBER | ISSUE<br>DATE | PATENTEE        | CLASS | SUBCLASS | FILING DATE IF<br>APPROPRIATE |
|-----|------------------|------------------|---------------|-----------------|-------|----------|-------------------------------|
| 1.  | -7               | 203,094          | 4/1878        | Wakeman         |       |          |                               |
| 2.  |                  | 428,023          | 5/1890        | Schoff          |       |          |                               |
| 3.  |                  | 445,250          | 1/1891        | Lawless         |       |          |                               |
| 4.  | <del>   </del>   | 486,986          | 11/1892       | Schinke         |       |          |                               |
| 5.  |                  | 566,410          | 8/1896        | Schinke         |       |          |                               |
| 6.  |                  | 570,405          | 10/1896       | Jerguson et al. | 138   | 120      |                               |
| 7.  |                  | 800,802          | 10/1905       | Franquist       |       |          |                               |
| 8.  |                  | 832,523          | 10/1906       | Andersson       |       |          |                               |
| 9.  |                  | 854,094          | 5/1907        | Klein           |       |          |                               |
| 10. |                  | 926,929          | 7/1909        | Dusseau         |       |          |                               |
| 11. |                  | 1,001,842        | 8/1911        | Greenfield      |       |          | -                             |
| 12. |                  | 1,003,037        | 9/1911        | Crowe           |       |          |                               |
| 13. |                  | 1,018,143        | 2/1912        | Vissering       |       |          |                               |
| 14. |                  | 1,217,254        | 2/1917        | Winslow         | ,     |          |                               |
| 15. |                  | 1,218,895        | 3/1917        | Porter          |       |          |                               |
| 16. |                  | 1,255,577        | 2/1918        | Berry           |       |          | -                             |
| 17. |                  | 1,260,181        | 3/1918        | Garnero         |       |          |                               |
| 18. |                  | 1,276,117        | 8/1918        | Riebe           |       |          |                               |
| 19. |                  | 1,327,428        | 1/1920        | Gregory         |       |          |                               |
| 20. |                  | 1,451,800        | 4/1923        | Agner           | 285   | 146.1X   |                               |
| 21. |                  | 1,469,528        | 10/1923       | Owens '         |       |          |                               |
| 22. |                  | 1,500,921        | 7/1924        | Bramson et al.  | 285   | 146.2X   |                               |
| 23. |                  | 1,560,789        | 11/1925       | Johnson et al.  |       |          |                               |
| 24. |                  | 1,597,477        | 8/1926        | Panhorst        |       |          |                               |
| 25. |                  | 1,692,394        | 11/1928       | Sundh           |       |          |                               |
| 26. |                  | 1,695,263        | 12/1928       | Jacques         | 138   | 120      |                               |
| 27. |                  | 1,724,147        | 8/1929        | Russell         | 239   | 283      |                               |
| 28. |                  | 1,736,160        | 11/1929       | Jonsson         |       |          |                               |
| 29. | 7/2              | 1,754,127        | 4/1930        | Srulowitz       |       |          |                               |

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|     | EXAMINER | PATENT    | ISSUE   |                |       |          | FILING DATE IF<br>APPROPRIATE |
|-----|----------|-----------|---------|----------------|-------|----------|-------------------------------|
|     | INITIAL  | NUMBER    | DATE    | PATENTEE       | CLASS | SUBCLASS | ATTROTRIATE                   |
| 30. | 20       | 1,758,115 | 5/1930  | Kelly          | ,     |          |                               |
| 31. |          | 1,778,658 | 10/1930 | Baker          |       |          |                               |
| 32. |          | 1,821,274 | 9/1931  | Plummer        |       |          |                               |
| 33. |          | 1,906,575 | 5/1933  | Goeriz         |       |          |                               |
| 34. |          | 2,024,930 | 8/1935  | Judell         |       |          |                               |
| 35. |          | 2,044,445 | 6/1936  | Price et al.   | 239   | 587.4X   |                               |
| 36. |          | 2,177,152 | 5/1939  | Crosti         |       |          |                               |
| 37. |          | 2,196,783 | 4/1940  | Shook          | 239   | 587.4X   |                               |
| 38. |          | 2,197,667 | 4/1940  | Shook          |       |          |                               |
| 39. |          | 2,268,263 | 5/1941  | Newell et al.  |       |          |                               |
| 40. |          | 2,342,757 | 2/1944  | Roser          |       |          |                               |
| 41. |          | D147,258  | 8/1947  | Becker         |       |          |                               |
| 42. |          | D152,584  | 2/1949  | Becker         | *     |          |                               |
| 43. |          | 2,467,954 | 4/1949  | Becker         |       |          |                               |
| 44. |          | 2,546,348 | 3/1951  | Schuman        |       |          |                               |
| 45. |          | 2,581,129 | 1/1952  | Muldoon        |       |          |                               |
| 46. |          | D166,073  | 3/1952  | Dunkelberger   |       |          |                               |
| 47. |          | 2,648,762 | 8/1953  | Dunkelberger   |       |          |                               |
| 48. |          | 2,664,271 | 12/1953 | Arutunoff      |       |          |                               |
| 49. |          | 2,676,806 | 4/1954  | Bachman        |       |          |                               |
| 50. |          | 2,679,575 | 5/1954  | Haberstump     |       |          |                               |
| 51. |          | 2,680,358 | 6/1954  | Zublin         | 285   | 146.1X   |                               |
| 52. |          | 2,759,765 | 8/1956  | Pawley         |       |          |                               |
| 53. |          | 2,776,168 | 1/1957  | Schweda        |       |          |                               |
| 54. |          | 2,873,999 | 2/1959  | Webb           |       |          |                               |
| 55. |          | 2,931,672 | 4/1960  | Merritt et al. |       |          |                               |
| 56. |          | 2,966,311 | 12/1960 | Davis          |       |          |                               |
| 57. |          | D190,295  | 5/1961  | Becker         |       |          |                               |
| 58. |          | D192,935  | 5/1962  | Becker         |       |          |                               |
| 59. |          | 3,032,357 | 5/1962  | Shames et al.  |       |          |                               |
| 60. |          | 3,034,809 | 5/1962  | Greenberg      |       |          | -                             |
| 61. |          | 3,103,723 | 9/1963  | Becker         |       |          |                               |
| 62. |          | 3,111,277 | 11/1963 | Grimsley       |       |          |                               |
| 63. |          | 3,143,857 | 8/1964  | Eaton          |       |          |                               |
| 64. | 3        | 3,196,463 | 7/1965  | Farneth        |       |          |                               |

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|     | EXAMINER<br>INITIAL                              | PATENT<br>NUMBER | ISSUE<br>DATE | PATENTEE         | CLASS       | SUBCLASS     | FILING DATE IF<br>APPROPRIATE |
|-----|--|------------------|---------------|------------------|-------------|--------------|-------------------------------|
| 65. | -5   | 3,266,059        | 8/1966        | Stelle           |             |              |                               |
| 66. | i  | 3,306,634        | 2/1967        | Groves et al.    |             | -            |                               |
| 67. |  | 3,329,967        | 7/1967        | Martinez et al.  |             |              |                               |
| 68. |  | 3,389,925        | 6/1968        | Gottschald       |             |              |                               |
| 69. |  | 3,393,311        | 7/1968        | Dahl             |             |              |                               |
| 70. |  | 3,393,312        | 7/1968        | Dahl             |             |              |                               |
| 71. |  | 3,402,893        | 9/1968        | Hindman          | 239         | 546          |                               |
| 72. |  | 3,492,029        | 1/1970        | French et al.    |             |              |                               |
| 73. |  | 3,546,961        | 12/1970       | Marton           |             |              |                               |
| 74. |  | 3,565,116        | 2/1971        | Gabin            |             |              |                               |
| 75. |  | 3,584,822        | 6/1971        | Oram             |             |              |                               |
| 76. |  | 3,612,577        | 10/1971       | Pope             |             |              |                               |
| 77. |  | 3,641,333        | 2/1972        | Gendron          |             |              |                               |
| 78. |  | 3,663,044        | 5/1972        | Contreras et al. |             |              |                               |
| 79. |  | 3,669,470        | 6/1972        | Deurloo          |             |              |                               |
| 80. |  | 3,685,745        | 8/1972        | Peschcke-Koedt   |             |              |                               |
| 81. |  | 3,731,084        | 5/1973        | Trevorrow        |             |              |                               |
| 82. |  | 3,754,779        | 8/1973        | Peress           |             |              |                               |
| 83. |  | 3,860,271        | 1/1975        | Rodgers          |             |              |                               |
| 84. |  | 3,861,719        | 1/1975        | Hand             |             |              |                               |
| 85. |  | 3,869,151        | 3/1975        | Fletcher et al.  |             |              |                               |
| 86. |  | 3,910,277        | 10/1975       | Zimmer           |             |              |                               |
| 87. |  | D237,708         | 11/1975       | Grohe            |             |              |                               |
| 88. |  | 3,929,164        | 12/1975       | Richter          |             |              |                               |
| 89. |  | 3,931,992        | 1/1976        | Coel             | 285         | 30           |                               |
| 90. | ,  | D240,322         | 6/1976        | Staub            |             |              |                               |
| 91. |  | 4,005,880        | 2/1977        | Anderson et al.  |             |              |                               |
| 92. |  | 4,006,920        | 2/1977        | Sadler et al.    | 1           |              |                               |
| 93. |  | 4,023,782        | 5/1977        | Eifer            |             |              |                               |
| 94. |  | 4,045,054        | 8/1977        | Arnold           |             |              |                               |
| 95. | 8.0  | D249,356         | 9/1978        | Nagy             |             |              |                               |
| 96. |  | 4,162,801        | 7/1979        | Kresky et al.    |             |              |                               |
| 97. | <del>                                     </del> | 4,243,253        | 1/1981        | Rogers, Jr.      | <del></del> |              |                               |
| 98. |  | 4,258,414        | 3/1981        | Sokol            |             | <del> </del> |                               |
| 99. | 15   | 4,274,400        | 6/1981        | Baus             |             | <del> </del> |                               |

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|      | EXAMINER    | PATENT    | ISSUE   |                    |       |          | FILING DATE IF<br>APPROPRIATE |
|------|-------------|-----------|---------|--------------------|-------|----------|-------------------------------|
|      | INITIAL     | NUMBER    | DATE    | PATENTEE           | CLASS | SUBCLASS | AFFROFRIATE                   |
| 100. | 7,7         | 4,282,612 | 8/1981  | King               |       |          |                               |
| 101. | 1           | D268,442  | 3/1983  | Darmon             |       |          |                               |
| 102. |             | 4,383,554 | 5/1983  | Merriman           |       |          |                               |
| 103. |             | 4,396,797 | 8/1983  | Sakuragi et al.    |       |          |                               |
| 104. |             | 4,425,965 | 1/1984  | Bayh, III et al.   |       |          |                               |
| 105. |             | 4,465,308 | 8/1984  | Martini            |       |          |                               |
| 106. |             | 4,495,550 | 1/1985  | Visciano           | . 4   |          |                               |
| 107. |             | 4,540,202 | 9/1985  | Amphoux et al.     |       |          |                               |
| 108. |             | 4,545,081 | 10/1985 | Nestor et al.      |       |          |                               |
| 109. |             | 4,553,775 | 11/1985 | Halling            |       |          |                               |
| 110. |             | D281,820  | 12/1985 | Oba et al.         |       |          |                               |
| 111. |             | 4,571,003 | 2/1986  | Roling et al.      |       |          |                               |
| 112. |             | D283,645  | 4/1986  | Tanaka             |       |          |                               |
| 113. |             | 4,643,463 | 2/1987  | Halling et al.     |       |          |                               |
| 114. |             | 4,645,244 | 2/1987  | Curtis             |       |          |                               |
| 115. |             | 4,652,025 | 3/1987  | Conroy, Sr.        |       |          |                               |
| 116. |             | 4,669,757 | 6/1987  | Bartholomew        |       |          |                               |
| 117. |             | 4,683,917 | 8/1987  | Bartholomew        |       |          |                               |
| 118. |             | 4,733,337 | 3/1988  | Bieberstein        |       |          | *                             |
| 119. |             | 4,739,801 | 4/1988  | Kimura et al.      |       |          |                               |
| 120. |             | 4,790,294 | 12/1988 | Allred, III et al. |       |          |                               |
| 121. |             | 4,809,369 | 3/1989  | Bowden             |       |          |                               |
| 122. |             | 4,839,599 | 6/1989  | Fischer            |       |          |                               |
| 123. |             | 4,842,059 | 6/1989  | Tomek              |       |          |                               |
| 124. |             | D302,325  | 7/1989  | Charet et al.      |       |          |                               |
| 125. |             | 4,850,616 | 7/1989  | Pava               |       |          |                               |
| 126. |             | 4,856,822 | 8/1989  | Parker             |       |          |                               |
| 127. |             | 4,863,328 | 9/1989  | Malek              | 411   | 114      |                               |
| 128. |             | 4,865,362 | 9/1989  | Holden             |       |          |                               |
| 129. | 1           | 4,871,196 | 10/1989 | Kingsford          |       |          |                               |
| 130. |             | D306,351  | 2/1990  | Charet et al.      |       |          |                               |
| 131. | <del></del> | 4,901,927 | 2/1990  | Valdivia           |       |          |                               |
| 132. |             | 4,903,178 | 2/1990  | Englot et al.      |       |          |                               |
| 133. |             | 4,907,137 | 3/1990  | Schladitz et al.   |       | 1        |                               |
| 134. | 772         | 4,946,202 | 8/1990  | Perricone          |       |          |                               |



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|      | EXAMINER<br>INITIAL | PATENT<br>NUMBER | ISSUE<br>DATE | PATENTEE           | CLASS | SUBCLASS   | FILING DATE II<br>APPROPRIATE |
|------|---------------------|------------------|---------------|--------------------|-------|--|-------------------------------|
| 135. | 5.4                 | 4,951,329        | 8/1990        | Shaw               |       |  |                               |
| 136. |                     | 4,964,573        | 10/1990       | Lipski             |       |  |                               |
| 137. |                     | 4,972,048        | 11/1990       | Martin             |       |  |                               |
| 138. |                     | D314,246         | 1/1991        | Bache              |       |  |                               |
| 139. |                     | 5,022,103        | 6/1991        | Faist              |       |  |                               |
| 140. |                     | 5,032,015        | 7/1991        | Christianson       |       |  |                               |
| 141. |                     | 5,033,528        | 7/1991        | Volcani            |       |  |                               |
| 142. |                     | 5,046,764        | 9/1991        | Kimura et al.      |       |  |                               |
| 143. |                     | D321,062         | 10/1991       | Bonbright          |       |  |                               |
| 144. |                     | D322,681         | 12/1991       | Yuen               |       |  |                               |
| 145. |                     | 5,086,878        | 2/1992        | Swift              |       |  |                               |
| 146. | 1                   | 5,103,384        | 4/1992        | Drohan             |       |  |                               |
| 147. |                     | 5,134,251        | 7/1992        | Martin             |       |  |                               |
| 148. |                     | D329,504         | 9/1992        | Yuen               |       |  |                               |
| 149. |                     | 5,153,976        | 10/1992       | Benchaar et al.    |       |  |                               |
| 150. |                     | 5,154,483        | 10/1992       | Zeller             |       |  |                               |
| 151. |                     | 5,163,752        | 11/1992       | Copeland et al.    |       |  |                               |
| 152. |                     | 5,197,767        | 3/1993        | Kimura et al.      |       |  |                               |
| 153. |                     | 5,220,697        | 6/1993        | Birchfield         |       |  |                               |
| 154. |                     | D337,839         | 7/1993        | Zeller             |       |  |                               |
| 155. |                     | D338,542         | 8/1993        | Yuen               |       |  |                               |
| 156. |                     | 5,254,809        | 10/1993       | Martin             | 1     |  |                               |
| 157. |                     | D341,220         | 11/1993       | Eagan              |       |  |                               |
| 158. |                     | 5,263,646        | 11/1993       | McCauley           | 138   | DIG. 8   |                               |
| 159. |                     | 5,265,833        | 11/1993       | Heimann et al.     |       |  |                               |
| 160. |                     | 5,268,826        | 12/1993       | Greene             |       |  |                               |
| 161. |                     | 5,276,596        | 1/1994        | Krenzel            |       |  |                               |
| 162. |                     | 5,286,071        | 2/1994        | Storage            |       |  |                               |
| 163. |                     | 5,288,110        | 2/1994        | Allread            |       |  |                               |
| 164. |                     | D345,811         | 4/1994        | Van Deursen et al. |       |  |                               |
| 165. |                     | 5,333,787        | 8/1994        | Smith et al.       |       |  |                               |
| 166. |                     | 5,340,165        | 8/1994        | Sheppard           |       |  |                               |
| 167. |                     | 5,349,987        | 9/1994        | Shieh              |       | <del>                                     </del> |                               |
| 168. |                     | 5,368,235        | 11/1994       | Drozdoff et al.    |       |  |                               |
| 169. | -0                  | 5,369,556        | 11/1994       | Zeller             |       |  |                               |



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|      | EXAMINER<br>INITIAL | PATENT<br>NUMBER | ISSUE<br>DATE | PATENTEE         | CLASS | SUBCLASS | FILING DATE IF<br>APPROPRIATE |
|------|---------------------|------------------|---------------|------------------|-------|----------|-------------------------------|
| 170. | - B                 | 5,370,427        | 12/1994       | Hoelle et al.    |       |          |                               |
| 171. |                     | 5,385,500        | 1/1995        | Schmidt          |       | ,        |                               |
| 172. |                     | D356,626         | 3/1995        | Wang             |       |          |                               |
| 173. |                     | 5,398,977        | 3/1995        | Berger et al.    |       |          |                               |
| 174. |                     | D361,399         | 8/1995        | Carbone et al.   |       |          |                               |
| 175. |                     | 5,449,206        | 9/1995        | Lockwood         |       |          |                               |
| 176. |                     | D363,360         | 10/1995       | Santarsiero      |       |          |                               |
| 177. |                     | 5,468,057        | 11/1995       | Megerle et al.   | · _   |          |                               |
| 178. |                     | D364,935         | 12/1995       | deBlois          |       |          |                               |
| 179. |                     | D365,625         | 12/1995       | Bova             |       |          |                               |
| 180. |                     | D365,646         | 12/1995       | deBlois          |       |          |                               |
| 181. |                     | D366,707         | 1/1996        | Kaiser           |       |          |                               |
| 182. |                     | D366,708         | 1/1996        | Santarsiero      |       |          |                               |
| 183. |                     | D366,709         | 1/1996        | Szymanski        |       |          |                               |
| 184. |                     | D366,710         | 1/1996        | Szymanski        |       |          |                               |
| 185. |                     | 5,481,765        | 1/1996        | Wang             |       |          |                               |
| 186. |                     | D366,948         | 2/1996        | Carbone          | 00    |          |                               |
| 187. |                     | D367,333         | 2/1996        | Swyst            |       |          |                               |
| 188. |                     | D367,934         | 3/1996        | Carbone          |       |          |                               |
| 189. |                     | D368,146         | 3/1996        | Carbone          |       |          | <u></u>                       |
| 190. |                     | D368,317         | 3/1996        | Swyst            |       |          |                               |
| 191. |                     | D368,539         | 4/1996        | Carbone et al.   |       |          |                               |
| 192. |                     | D368,540         | 4/1996        | Santarsiero      |       |          |                               |
| 193. |                     | D368,541         | 4/1996        | Kaiser et al.    |       |          |                               |
| 194. |                     | D368,542         | 4/1996        | deBlois et al.   |       |          |                               |
| 195. |                     | D369,873         | 5/1996        | deBlois et al.   |       |          |                               |
| 196. |                     | D369,874         | 5/1996        | Santarsiero      |       |          |                               |
| 197. |                     | D369,875         | 5/1996        | Carbone          |       |          | ·                             |
| 198. |                     | D370,277         | 5/1996        | Kaiser           |       |          |                               |
| 199. |                     | D370,278         | 5/1996        | Nolan            |       |          |                               |
| 200. |                     | D370,279         | 5/1996        | deBlois          |       |          |                               |
| 201. |                     | D370,280         | 5/1996        | Kaiser           |       |          |                               |
| 202. |                     | D370,281         | 5/1996        | Johnstone et al. |       |          |                               |
| 203. |                     | 5,517,392        | 5/1996        | Rousso et al.    |       |          |                               |
| 204. | -17                 | 5,521,803        | 5/1996        | Eckert et al.    | 362   | 198      |                               |

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|      | EXAMINER<br>INITIAL                              | PATENT<br>NUMBER | ISSUE<br>DATE | PATENTEE         | CLASS | SUBCLASS | FILING DATE IF<br>APPROPRIATE |
|------|--|------------------|---------------|------------------|-------|----------|-------------------------------|
| 205. | 7/7  | D370,542         | 6/1996        | Santarsiero      |       |          |                               |
| 206. |  | D370,735         | 6/1996        | DeBlois          |       |          |                               |
| 207. |  | D370,987         | 6/1996        | Santarsiero      |       |          |                               |
| 208. |  | D370,988         | 6/1996        | Santarsiero      |       |          |                               |
| 209. |  | D371,448         | 7/1996        | Santarsiero      |       | ,        |                               |
| 210. |  | D371,618         | 7/1996        | Nolan            |       |          |                               |
| 211. |  | D371,619         | 7/1996        | Szymanski        |       |          | ·                             |
| 212. |  | D371,856         | 7/1996        | Carbone          |       |          |                               |
| 213. |  | D372,318         | 7/1996        | Szymanski        |       |          |                               |
| 214. |  | D372,319         | 7/1996        | Carbone          |       |          |                               |
| 215. |  | 5,531,625        | 7/1996        | Zhong            |       |          |                               |
| 216. |  | D372,548         | 8/1996        | Carbone          |       |          |                               |
| 217. |  | D372,998         | 8/1996        | Carbone          |       |          |                               |
| 218. |  | D373,210         | 8/1996        | Santarsiero      |       |          |                               |
| 219. |  | D373,434         | 9/1996        | Nolan            |       |          |                               |
| 220. |  | D373,435         | 9/1996        | Nolan            |       |          |                               |
| 221. |  | D373,645         | 9/1996        | Johnstone et al. |       |          |                               |
| 222. |  | D373,646         | 9/1996        | Szymanski et al. |       |          |                               |
| 223. |  | D373,647         | 9/1996        | Kaiser           |       |          |                               |
| 224. |  | D373,648         | 9/1996        | Kaiser           |       |          |                               |
| 225. |  | D373,649         | 9/1996        | Carbone          |       |          |                               |
| 226. |  | D373,651         | 9/1996        | Szymanski        |       |          |                               |
| 227. |  | D373,652         | 9/1996        | Kaiser           |       |          |                               |
| 228. |  | D374,297         | 10/1996       | Kaiser           |       |          |                               |
| 229. |  | D374,298         | 10/1996       | Swyst            |       |          |                               |
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